	Application No.	Applicant(s)	
Notice of Allowability	10/654,767	CAMPBELL, CHRISTIAN X.	
	Examiner	Art Unit	
	icas Comm	4755	
	Karl E. Group	1755	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comming IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS	ive
1. This communication is responsive to <u>12-09-05</u> .			
2. The allowed claim(s) is/are <u>1-5,7-17,21-23 and 28-37.</u>	•		
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).	
Certified copies of the priority documents have			
2. Certified copies of the priority documents have	•		
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of In	formal Patent Application (PTO-152)	
Notice of References Cited (PTO-692) Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	ummary (PTO-413),	
_	Paper No.	/Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. 🛭 Examiner's	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance	
·	9.	→	
		•	

Art Unit: 1755

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Maire on February 1, 2006.

The application has been amended as follows:

Claim 1, line 2, after "first particles" insert - - - comprising a network of microcracks - - - and change, "binding matrix material" to - - -binding matrix comprising a ceramic material - - -, line 7, after "first particles" insert - - -, wherein the first particles comprise ceria and the second particles comprise mullite - - -.

Claims 7-11, 14-16 change "claim 6" to - - - claim 1 - - -.

Claim 21, line 3, after "first particles" insert - - - comprising a network of microcracks - - -, line 4, change, "binding matrix material" to - - -binding matrix comprising a ceramic material - -, line 11, after "aggregate material", insert - - -, wherein the first particles comprise ceria and the second particles comprise mullite - - -.

Rewrite claim 28 as:

- - -28. A material comprising a sintered aggregation of ceria particles and mullite particles within a binding matrix <u>comprising a ceramic material</u>, <u>wherein</u> the ceria particles comprise a network of microcracks. - - -

Cancel claims 6,18-20,24-27.

Art Unit: 1755

2. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or fairly suggest the claimed material of a matrix including a ceramic included therein ceria and mullite particle wherein at least the ceria particles include a network of microcracks. Ueda et al, 5,322,823 is cited as prior art of interest where the dispersed particles of TiN develop microcracks, column 13, lines 36-43.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Karl É Group Primary Examiner Art Unit 1755